

PATENT

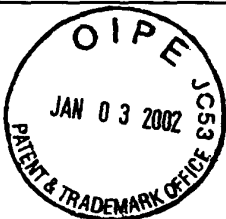
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Wellington, et al.

Serial No.: 09/841,129

Filed: April 24, 2001

For: IN SITU THERMAL PROCESSING
OF A COAL FORMATION PRODUCING
A MIXTURE WITH OXYGENATED
HYDROCARBONS



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Examiner: Unknown

Group Art Unit: 3672

Atty. Dkt: 5659-06800

Certificate of Mailing 37 C.F.R. § 1.8(a)

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Jackie Pitre

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (references A257-A348) be considered by the Examiner and made of record. Copies of the listed documents are enclosed for the convenience of the Examiner.

Should any fees be required, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5659-06800/EBM.

Respectfully submitted,

Eric B. Meyertons
Reg. No. 34,876
Attorney for Applicant(s)

CONLEY, ROSE & TAYON, P.C.
P.O. BOX 398
AUSTIN, TEXAS 78767-0398
(512) 476-1400 (voice)
(512) 703-1250 (facsimile)
Date: 12-14-01

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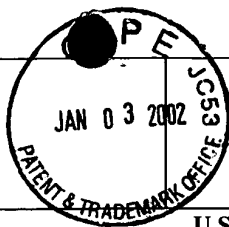
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AUSTIN, TEXAS 78767-0398  
(512) 476-1400 (voice)  
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Form PTO-1449 (modified)  
List of Patents and Publications  
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ATTY. DKT. NO. 5659-06800/1H1993

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U.S. PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE     | NAME               | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|----------------|-----------|-----------------|----------|--------------------|-------|-----------|----------------------------|
|                | A1        | 760,304         | 05/1904  | Butler             |       |           |                            |
|                | A2        | 1,342,741       | 06/1920  | Day                |       |           |                            |
|                | A3        | 1,510,655       | 10/1924  | Clark              |       |           |                            |
|                | A4        | 1,666,488       | 02/1927  | Crawshaw           |       |           |                            |
|                | A5        | 1,913,395       | 11/1929  | Karrick            |       |           |                            |
|                | A6        | 2,423,674       | 07/1947  | Agren              |       |           |                            |
|                | A7        | 2,444,755       | 07/1948  | Steffen            |       |           |                            |
|                | A8        | 2,466,945       | 02/1946  | Greene             |       |           |                            |
|                | A9        | 2,472,445       | 06/1949  | Sprong             |       |           |                            |
|                | A10       | 2,484,063       | 10/1949  | Ackley             |       |           |                            |
|                | A11       | 2,497,868       | 02/1950  | Dalin              |       |           |                            |
|                | A12       | 2,548,360       | 04/1951  | Germain            |       |           |                            |
|                | A13       | 2,593,477       | 04/1952  | Newman et al.      |       |           |                            |
|                | A14       | 2,595,979       | 05/1952  | Pevere et al.      |       |           |                            |
|                | A15       | 2,630,306       | 01/1952  | Evans              |       |           |                            |
|                | A16       | 2,634,961       | 04/1953  | Ljungstrom         |       |           |                            |
|                | A17       | 2,642,943       | 06/1953  | Smith et al.       |       |           |                            |
|                | A18       | 2,670,802       | 03/1954  | Ackley             |       |           |                            |
|                | A19       | 2,695,163       | 11/1954  | Pearce et al.      |       |           |                            |
|                | A20       | 2,732,195       | 01-24-56 | Ljungstrom         |       |           |                            |
|                | A21       | 2,734,579       | 02-14-56 | Elkins             |       |           |                            |
|                | A22       | 2,780,449       | 02-05-57 | Fisher et al.      |       |           |                            |
|                | A23       | 2,777,679       | 01/1957  | Ljungstrom         |       |           |                            |
|                | A24       | 2,780,450       | 02/1957  | Ljungstrom         |       |           |                            |
|                | A25       | 2,786,660       | 03/1957  | Alleman            |       |           |                            |
|                | A26       | 2,789,805       | 04/1957  | Ljungstrom         |       |           |                            |
|                | A27       | 2,804,149       | 08/1957  | Kile               |       |           |                            |
|                | A28       | 2,841,375       | 07/1958  | Salomonsson        |       |           |                            |
|                | A29       | 2,902,270       | 09/1959  | Salomonsson et al. |       |           |                            |
|                | A30       | 2,906,337       | 09/1959  | Henning            |       |           |                            |

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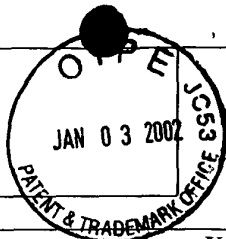
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|-------------------|--------------|-----------------|---------|--------------------|-------|--------------|-------------------------------|
|                   | A31          | 2,914,309       | 11/1959 | Salomonsson        |       |              |                               |
|                   | A32          | 2,923,535       | 02/1960 | Ljungstrom         |       |              |                               |
|                   | A33          | 2,939,689       | 06/1960 | Ljungstrom         |       |              |                               |
|                   | A34          | 2,954,826       | 10/1960 | Sievers            |       |              |                               |
|                   | A35          | 2,974,937       | 03/1961 | Kiel               |       |              |                               |
|                   | A36          | 2,994,376       | 08/1961 | Crawford et al.    |       |              |                               |
|                   | A37          | 2,998,457       | 08/1961 | Paulsen            |       |              |                               |
|                   | A38          | 3,004,603       | 10/1961 | Rogers et al.      |       |              |                               |
|                   | A39          | 3,007,521       | 11/1961 | Trantham et al.    |       |              |                               |
|                   | A40          | 3,095,031       | 06/1963 | Eurenius et al.    |       |              |                               |
|                   | A41          | 3,105,545       | 10/1963 | Prats et al.       |       |              |                               |
|                   | A42          | 3,106,244       | 10/1963 | Parker             |       |              |                               |
|                   | A43          | 3,110,345       | 11/1963 | Reed et al.        |       |              |                               |
|                   | A44          | 3,113,623       | 12/1963 | Krueger            |       |              |                               |
|                   | A45          | 3,114,417       | 12/1963 | McCarthy           |       |              |                               |
|                   | A46          | 3,131,763       | 05/1964 | Kunetka et al.     |       |              |                               |
|                   | A47          | 3,139,928       | 07/1964 | Broussard          |       |              |                               |
|                   | A48          | 3,142,336       | 07/1964 | Doscher            |       |              |                               |
|                   | A49          | 3,149,672       | 10/1964 | Orkiszewski et al. |       |              |                               |
|                   | A50          | 3,163,745       | 12/1964 | Boston             |       |              |                               |
|                   | A51          | 3,164,207       | 01/1965 | Thessen et al.     |       |              |                               |
|                   | A52          | 3,182,721       | 05/1965 | Hardy              |       |              |                               |
|                   | A53          | 3,183,675       | 05/1965 | Schroeder          |       |              |                               |
|                   | A54          | 3,191,679       | 06/1965 | Miller             |       |              |                               |
|                   | A55          | 3,205,946       | 10/1965 | Prats et al.       |       |              |                               |
|                   | A56          | 3,207,220       | 10/1965 | Williams           |       |              |                               |
|                   | A57          | 3,208,531       | 10/1965 | Tamplen            |       |              |                               |
|                   | A58          | 3,209,825       | 10/1965 | Alexander et al.   |       |              |                               |
|                   |              |                 |         |                    |       |              |                               |

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|-------------------|--------------|-----------------|---------|----------------------|-------|--------------|-------------------------------|
|                   | A59          | 3,237,689       | 03/1966 | Justheim             |       |              |                               |
|                   | A60          | 3,241,611       | 03/1966 | Dougan               |       |              |                               |
|                   | A61          | 3,250,327       | 05/1966 | Cridner              |       |              |                               |
|                   | A62          | 3,267,680       | 08/1966 | Schlumberger         |       |              |                               |
|                   | A63          | 3,284,281       | 11/1966 | Thomas               |       |              |                               |
|                   | A64          | 3,338,306       | 08/1967 | Cook                 |       |              |                               |
|                   | A65          | 3,528,501       | 09/1970 | Parker               |       |              |                               |
|                   | A66          | 3,595,082       | 07/1971 | Miller et al.        |       |              |                               |
|                   | A67          | 3,973,628       | 08/1976 | Colgate              |       |              |                               |
|                   | A68          | 3,992,148       | 11/1975 | Child                |       |              |                               |
|                   | A69          | 3,993,132       | 11/1977 | Garrett              |       |              |                               |
|                   | A70          | 4,016,239       | 04/1977 | Fenton               |       |              |                               |
|                   | A71          | 4,076,761       | 02/1978 | Chang et al.         |       |              |                               |
|                   | A72          | 4,089,372       | 05/1978 | Terry                |       |              |                               |
|                   | A73          | 4,093,026       | 06/1978 | Ridley               |       |              |                               |
|                   | A74          | 4,096,163       | 06/1978 | Chang, et al.        |       |              |                               |
|                   | A75          | 4,130,575       | 12/1978 | Jorn et al.          |       |              |                               |
|                   | A76          | 4,133,825       | 01/1979 | Stroud et al.        |       |              |                               |
|                   | A77          | 4,138,442       | 02/1979 | Chang et al.         |       |              |                               |
|                   | A78          | 4,186,801       | 02/1980 | Madgavkar et al.     |       |              |                               |
|                   | A79          | 4,250,230       | 02/1981 | Terry                |       |              |                               |
|                   | A80          | 4,250,962       | 02/1981 | Madgavkar et al.     |       |              |                               |
|                   | A81          | 4,273,188       | 06/1981 | Vogel et al.         |       |              |                               |
|                   | A82          | 4,274,487       | 06/1981 | Hollingsworth et al. |       |              |                               |
|                   | A83          | 4,299,086       | 11/1981 | Madgavkar et al.     |       |              |                               |
|                   | A84          | 4,299,285       | 11/1981 | Tsai et al.          |       |              |                               |
|                   | A85          | 4,359,687       | 11/1982 | Vinegar et al.       |       |              |                               |
|                   | A86          | 4,363,361       | 12/1982 | Madgavkar et al.     |       |              |                               |
|                   | A87          | 4,366,668       | 01/1983 | Madgavkar et al.     |       |              |                               |
|                   | A88          | 4,378,048       | 03/1983 | Madgavkar et al.     |       |              |                               |

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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
|                   | A89          | 4,381,641       | 05/1983 | Madgavkar et al.  |       |              |                               |
|                   | A90          | 4,398,151       | 08/1983 | Vinegar et al.    |       |              |                               |
|                   | A91          | 4,407,973       | 10/1983 | van Dijk et al.   |       |              |                               |
|                   | A92          | 4,409,090       | 10/1983 | Hanson et al.     |       |              |                               |
|                   | A93          | 4,444,258       | 04/1984 | Kalmar            |       |              |                               |
|                   | A94          | 4,501,445       | 02/1985 | Gregoli           |       |              |                               |
|                   | A95          | 4,530,401       | 07/1985 | Hartman et al.    |       |              |                               |
|                   | A96          | 4,540,882       | 10/1985 | Vinegar et al.    |       |              |                               |
|                   | A97          | 4,542,648       | 10/1985 | Vinegar et al.    |       |              |                               |
|                   | A98          | 4,570,715       | 02/1986 | Van Meurs et al.  |       |              |                               |
|                   | A99          | 4,571,491       | 02/1986 | Vinegar et al.    |       |              |                               |
|                   | A100         | 4,572,299       | 02/1986 | Vanegmond et al.  |       |              |                               |
|                   | A101         | 4,583,046       | 04/1986 | Vinegar et al.    |       |              |                               |
|                   | A102         | 4,583,242       | 04/1986 | Vinegar et al.    |       |              |                               |
|                   | A103         | 4,594,468       | 06/1986 | Minderhoud        |       |              |                               |
|                   | A104         | 4,597,441       | 07/1986 | Ware et al.       |       |              |                               |
|                   | A105         | 4,605,680       | 08/1986 | Beuther et al.    |       |              |                               |
|                   | A106         | 4,613,754       | 09/1986 | Vinegar et al.    |       |              |                               |
|                   | A107         | 4,616,705       | 10/1986 | Stegemeier et al. |       |              |                               |
|                   | A108         | 4,635,197       | 01/1987 | Vinegar et al.    |       |              |                               |
|                   | A109         | 4,640,352       | 02/1987 | Vanmeurs et al.   |       |              |                               |
|                   | A110         | 4,644,283       | 02/1987 | Vinegar et al.    |       |              |                               |
|                   | A111         | 4,658,215       | 04/1987 | Vinegar et al.    |       |              |                               |
|                   | A112         | 4,663,711       | 05/1987 | Vinegar et al.    |       |              |                               |
|                   | A113         | 4,671,102       | 06/1987 | Vinegar et al.    |       |              |                               |
|                   | A114         | 4,716,960       | 01/1988 | Eastlund et al.   |       |              |                               |
|                   | A115         | 4,719,423       | 01/1988 | Vinegar et al.    |       |              |                               |
|                   | A116         | 4,728,892       | 03/1988 | Vinegar et al.    |       |              |                               |
|                   | A117         | 4,730,162       | 03/1988 | Vinegar et al.    |       |              |                               |
|                   | A118         | 4,743,854       | 05/1988 | Vinegar et al.    |       |              |                               |

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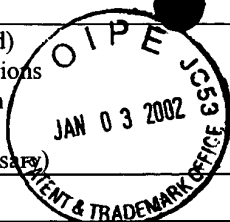
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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
|                   | A119         | 4,762,425       | 08/1988 | Shakkottai et al. |       |              |                               |
|                   | A120         | 4,769,602       | 09/1988 | Vinegar et al.    |       |              |                               |
|                   | A121         | 4,769,606       | 09/1988 | Vinegar et al.    |       |              |                               |
|                   | A122         | 4,793,656       | 12/1988 | Siddoway et al.   |       |              |                               |
|                   | A123         | 4,827,761       | 05/1989 | Vinegar et al.    |       |              |                               |
|                   | A124         | 4,848,924       | 07/1989 | Nuspl et al.      |       |              |                               |
|                   | A125         | 4,856,341       | 08/1989 | Vinegar et al.    |       |              |                               |
|                   | A126         | 4,860,544       | 08/1989 | Krieg et al.      |       |              |                               |
|                   | A127         | 4,866,983       | 09/1989 | Vinegar et al.    |       |              |                               |
|                   | A128         | 4,884,455       | 12/1989 | Vinegar et al.    |       |              |                               |
|                   | A129         | 4,886,118       | 12/1989 | Van Meurs et al.  |       |              |                               |
|                   | A130         | 4,927,857       | 05/1990 | McShea III et al. |       |              |                               |
|                   | A131         | 4,974,425       | 12/1990 | Krieg et al.      |       |              |                               |
|                   | A132         | 4,983,319       | 01/1991 | Gregoli et al.    |       |              |                               |
|                   | A133         | 4,984,594       | 01/1991 | Vinegar et al.    |       |              |                               |
|                   | A134         | 4,987,368       | 01/1991 | Vinegar           |       |              |                               |
|                   | A135         | 4,994,093       | 02/1991 | Wetzel et al.     |       |              |                               |
|                   | A136         | 5,014,788       | 05/1991 | Puri et al.       |       |              |                               |
|                   | A137         | 5,046,559       | 10/1991 | Glandt            |       |              |                               |
|                   | A138         | 5,050,386       | 09/1991 | Krieg et al.      |       |              |                               |
|                   | A139         | 5,060,287       | 10/1991 | Van Egmond        |       |              |                               |
|                   | A140         | 5,060,726       | 10/1991 | Glandt et al.     |       |              |                               |
|                   | A141         | 5,065,818       | 11/1991 | Van Egmond        |       |              |                               |
|                   | A142         | 5,168,927       | 12/1992 | Stegemeier et al. |       |              |                               |
|                   | A143         | 5,189,283       | 02/1993 | Carl, Jr. et al.  |       |              |                               |
|                   | A144         | 5,190,405       | 03/1993 | Vinegar et al.    |       |              |                               |
|                   | A145         | 5,207,273       | 05/1993 | Cates et al.      |       |              |                               |
|                   | A146         | 5,211,230       | 05/1993 | Ostapovich et al. |       |              |                               |
|                   | A147         | 5,226,961       | 07/1993 | Nahm et al.       |       |              |                               |
|                   | A148         | 5,229,583       | 07/1993 | van Egmond et al. |       |              |                               |

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|-------------------|--------------|-----------------|---------|-------------------|-------|--------------|-------------------------------|
|                   | A149         | 5,236,039       | 08/1993 | Edelstein et al.  |       |              |                               |
|                   | A150         | 5,255,742       | 10/1993 | Mikus             |       |              |                               |
|                   | A151         | 5,297,626       | 03/1994 | Vinegar et al.    |       |              |                               |
|                   | A152         | 5,306,640       | 04/1994 | Vinegar et al.    |       |              |                               |
|                   | A153         | 5,318,116       | 06/1994 | Vinegar et al.    |       |              |                               |
|                   | A154         | 5,339,897       | 08/1994 | Leaute            |       |              |                               |
|                   | A155         | 5,340,467       | 08/1994 | Gregoli et al.    |       |              |                               |
|                   | A156         | 5,349,859       | 09/1994 | Kleppe            |       |              |                               |
|                   | A157         | 5,388,640       | 02/1995 | Puri et al.       |       |              |                               |
|                   | A158         | 5,388,641       | 02/1995 | Yee et al.        |       |              |                               |
|                   | A159         | 5,388,642       | 02/1995 | Puri et al.       |       |              |                               |
|                   | A160         | 5,388,643       | 02/1995 | Yee et al.        |       |              |                               |
|                   | A161         | 5,388,645       | 02/1995 | Puri et al.       |       |              |                               |
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ATTY. DKT. NO. 5659-06800/TH1993

SERIAL NO. 09/841,129

APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

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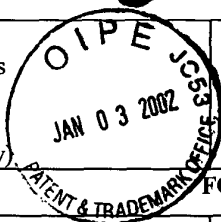
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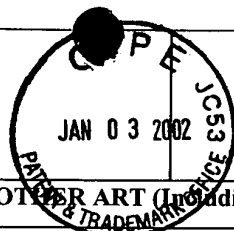
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APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

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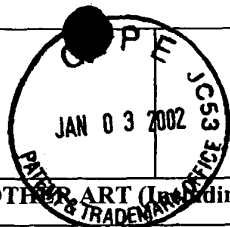
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ATTY. DKT. NO. 5659-06800-993

SERIAL NO. 09/841,129

APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

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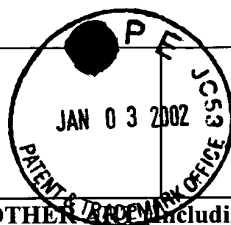
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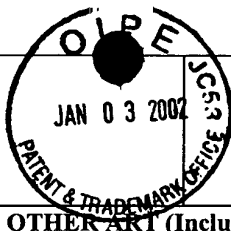
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ATTY. DKT. NO. 5659-06800/1993

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